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TITLE: Caracasamide - a novel antihypertensive agent

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CORPORATE SOURCE: School Pharmacy, National Defense Medical Center, Taipei, Taiwan

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AB Caracasamide is one of the hypotensive agents isolated from *Verbesina caracasana*. It is the mixture of E/Z forms of 1-[3,4-(dimethoxycinnamoyl)amino]-4-[(3-methyl-2-butenyl)guanidino]butane. At nontoxic dose, Z-caracasamide possesses significant, in vivo, activity of antihypertension with a lasting duration. Z-Caracasamide was found to decrease blood pressure and to increase cardiac inotropism, respiratory frequency, and tidal volume, and to induce a very slight and not significant tachycardia. The pharmacol. profiles indicate that the cardiovascular actions of this compound might result from: (a) a decrease in sympathetic outflow through central neurogenic mechanisms; (b) arterial vasodilation;

and (c) an interaction with the cardiac β -1 adrenoreceptors. Z-Caracasanamide is as effective as reserpine in lowering blood pressure and demonstrates a longer duration than guanethidine, papaverine, histamine, and thus is a candidate in clin. application. This paper deals with the origin, structure, synthesis, pharmacol. actions and advantages of actions of caracasanamide.

IT 128009-16-5 146269-39-8, Caracasanamide

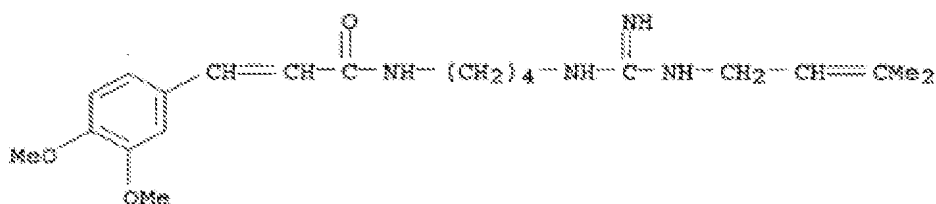
146269-40-1, z-Caracasanamide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antihypertensive activity and mechanism of action of)

RN 128009-16-5 CAPLUS

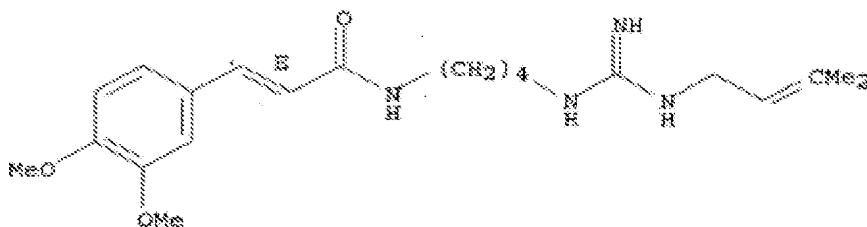
CN 2-Propenamide, 3-(3,4-dimethoxyphenyl)-N-[4-[[imino[(3-methyl-2-butenyl)amino]methyl]amino]butyl]- (9CI) (CA INDEX NAME)



RN 146269-39-8 CAPLUS

CN 3-Propenamide, 3-(3,4-dimethoxyphenyl)-N-[4-[[imino[(3-methyl-2-butenyl)amino]methyl]amino]butyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 146269-40-1 CAPLUS

CN 2-Propenamide, 3-(3,4-dimethoxyphenyl)-N-[4-[[imino[(3-methyl-2-butenyl)amino]methyl]amino]butyl]-, (2E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

